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### 1 [Planet scale software updates](#)



Christos Gkantsidis, Thomas Karagiannis, Milan VojnoviC

September 2006 SI GCOMM '06: Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available: [pdf\(1.19 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 121, Citation Count: 0

Fast and effective distribution of software updates (a.k.a. patches) to millions of Internet users evolved into a critical task over the last years. In this paper, we characterize "Windows Update" the largest update services in the world, ...

Key words: caching, peer-to-peer, software updates

### 2 [Planet scale software updates](#)



Christos Gkantsidis, Thomas Karagiannis, Milan VojnoviC

August 2006 ACM SIGCOMM Computer Communication Review, Volume 36 Issue 4

Publisher: ACM

Full text available: [pdf\(1.19 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 121, Citation Count: 0

Fast and effective distribution of software updates (a.k.a. patches) to millions of Internet users evolved into a critical task over the last years. In this paper, we characterize "Windows Update" the largest update services in the world, ...

Key words: caching, peer-to-peer, software updates

### 3 [Cryptography as an operating system service: A case study](#)



Angelos D. Keromytis, Jason L. Wright, Theo De Raadt, Matthew Burnside

February 2006 ACM Transactions on Computer Systems (TOCS), Volume 24 Issue 1

Publisher: ACM

Full text available: [pdf\(669.12 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 999, Citation Count: 0

Cryptographic transformations are a fundamental building block in many security applications and protocols. To improve performance, several vendors market hardware accelerator cards. However

now no operating system provided a mechanism that allowed ...

Keyw ords: Encryption, authentication, cryptographic protocols, digital signatures, hash function

#### 4 [Abstraction-based intrusion detection in distributed environments](#)



Peng Ning, Sushil Jajodia, Xiaoyang Sean Wang

November 2001 ACM Transactions on Information and System Security (TISSEC), Volume 4 Is  
Publisher: ACM

Full text available: pdf(590.61 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index ter](#)

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 208, Citation Count: 5

Abstraction is an important issue in intrusion detection, since it not only hides the difference bet heterogeneous systems, but also allows generic intrusion-detection models. However, abstractic error-prone process and is not well supported ...

Keyw ords: Cooperative information systems, heterogeneous systems, intrusion detection, mist detection

#### 5 [Mitigating application-level denial of service attacks on Web servers: A client-transparent a](#)



Mudhakar Srivatsa, Arun Iyengar, Jian Yin, Ling Liu

July 2008 ACM Transactions on the Web (TWEB), Volume 2 Issue 3

Publisher: ACM

Full text available: pdf(516.74 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

Recently, we have seen increasing numbers of denial of service (DoS) attacks against online ser and Web applications either for extortion reasons or for impairing and even disabling the compe These DoS attacks have increasingly targeted the ...

Keyw ords: DoS Attacks, Web servers, client transparency, game theory

#### 6 [Inferring binary trust relationships in Web-based social networks](#)



Jennifer Golbeck, James Hendler

November 2006 ACM Transactions on Internet Technology (TOIT), Volume 6 Issue 4

Publisher: ACM

Full text available: pdf(1.36 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 96, Downloads (12 Months): 696, Citation Count: 0

The growth of Web-based social networking and the properties of those networks have created potential for producing intelligent software that integrates a user's social network and preferenc research looks particularly at assigning trust ...

Keyw ords: Social networks, online communities, semantic Web, small worlds, trust

#### 7 [The string B-tree: a new data structure for string search in external memory and its applica](#)



Paolo Ferragina, Roberto Grossi

March 1999 Journal of the ACM (JACM), Volume 46 Issue 2

Publisher: ACM

Full text available: pdf(363.37 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index ter](#)

Bibliometrics: Downloads (6 Weeks): 58, Downloads (12 Months): 400, Citation Count: 30

We introduce a new text-indexing data structure, the String B-Tree, that can be seen as a link b some traditional external-memory and string-matching data structures. In a short phrase, it is a combination of B-trees and Patricia ...

Keyw ords: B-tree, Patricia trie, external-memory data structure, prefix and range search, strin searching and sorting, suffix array, suffix tree, text index

## 8 Clarifying the fundamentals of HTTP



Jeffery C. Mogul

May 2002 WWW '02: Proceedings of the 11th international conference on World Wide Web

Publisher: ACM

Full text available: pdf(157.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index ter](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 115, Citation Count: 2

The simplicity of HTTP was a major factor in the success of the Web. However, as both the protc its uses have evolved, HTTP has grown complex. This complexity results in numerous problems, including confused implementors, interoperability failures, ...

Keyw ords: HTTP, protocol design

## 9 Computer security: theory, process and management

George Whitson

June 2003 Journal of Computing Sciences in Colleges, Volume 18 Issue 6

Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(134.71 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 429, Citation Count: 0

The Internet backbone servers were attacked and Web traffic slowed for a few hours, the Nimbc used Microsoft Web servers to infect all those downloading Web pages until appropriate patches applied and credit card information is stolen every ...

## 10 Termination in language-based systems



Algis Rudys, Dan S. Wallach

May 2002 ACM Transactions on Information and System Security (TISSEC), Volume 5 Issue 2

Publisher: ACM

Full text available: pdf(355.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index ter](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 36, Citation Count: 5

Language run-time systems are increasingly being embedded in systems to support run-time extensibility via mobile code. Such systems raise a number of concerns when the code running i systems is potentially buggy or untrusted. Although sophisticated access ...

Keyw ords: Applets, Internet, Java, resource control, soft termination, termination

## 11 Communications of the ACM: Volume 51 Issue 8



August 2008 issue Volume 51 Issue 8

Publisher: ACM

Full text available: pdf(6.85 MB) digital edition Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

## 12 [A DoS-limiting network architecture](#)



Xiaowei Yang, David Wetherall, Thomas Anderson

October 2005 ACM SIGCOMM Computer Communication Review, Volume 35 Issue 4

Publisher: ACM

Full text available: [pdf\(370.55 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index ter](#)

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 185, Citation Count: 11

We present the design and evaluation of TVA, a network architecture that limits the impact of D Service (DoS) floods from the outset. Our work builds on earlier work on capabilities in which se obtain short-term authorizations from receivers ...

Keyw ords: denial-of-service, internet

## 13 [Communications of the ACM: Volume 51 Issue 7](#)



July 2008 issue Volume 51 Issue 7

Publisher: ACM

Full text available: [pdf\(6.54 MB\)](#) [digital edition](#) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 102, Downloads (12 Months): 102, Citation Count: 0

## 14 [Computing curricula 2001](#)



CORPORATE The Joint Task Force on Computing Curricula

September 2001 Journal on Educational Resources in Computing (JERIC), Volume 1 Issue 3es

Publisher: ACM

Full text available: [pdf\(613.63 KB\)](#) [html\(2.78 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#), [index te](#)

Bibliometrics: Downloads (6 Weeks): 221, Downloads (12 Months): 1779, Citation Count: 22

## 15 [Secured tag identification using EDSA \(enhanced distributed scalable architecture\)](#)



Sheikh Iqbal Ahamed, Farzana Rahman, Md. Endadul Hoque

March 2008 SAC '08: Proceedings of the 2008 ACM symposium on Applied computing

Publisher: ACM

Full text available: [pdf\(151.07 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 22, Citation Count: 0

RFID technology has become increasingly popular in todays society and plays an important role life. However, the exploitation of this technology requires practical and secure solutions to overc certain issues. In the case of RFID systems, ...

Keyw ords: EDSA, distributed, identification, scalability, serverless

## 16 [A reliable multicast framework for light-weight sessions and application level framing](#)

Sally Floyd, Van Jacobson, Ching-Gung Liu, Steven McCanne, Lixia Zhang

December 1997 IEEE/ ACM Transactions on Networking (TON), Volume 5 Issue 6

Publisher: IEEE Press

Full text available: [pdf\(310.74 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#), [revie](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 124, Citation Count: 105


Keywords: Internetworking, computer network performance, computer networks

17 [Deploying the Squid Proxy Server on Linux](#)

Ian Spare

March 2001 Linux Journal, Volume 2001 Issue 83es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(24.89 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 27, Citation Count: 0

Ian gives an example of the installation, configuration and maintenance of this multi-tentacled invertebrate proxy server.

18 [Acceptability-oriented computing](#)



Martin Rinard

October 2003 OOPSLA '03: Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications

Publisher: ACM

Full text available:  [pdf\(321.06 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 17, Citation Count: 3

We discuss a new approach to the construction of software systems. Instead of attempting to build a system that is as free of errors as possible, the designer instead identifies key properties that the execution must satisfy to be acceptable to its users. ...

Keywords: acceptability properties, monitoring, rectification, repair

19 [Acceptability-oriented computing](#)



Martin Rinard

December 2003 ACM SIGPLAN Notices, Volume 38 Issue 12

Publisher: ACM

Full text available:  [pdf\(446.05 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 18, Citation Count: 0

We discuss a new approach to the construction of software systems. Instead of attempting to build a system that is as free of errors as possible, the designer instead identifies key properties that the execution must satisfy to be acceptable to its users. ...

Keywords: acceptability properties, monitoring, rectification, repair

20 [Ad hoc extensibility and access control](#)



Úlfar Erlingsson, John MacCormick

July 2006 ACM SIGOPS Operating Systems Review, Volume 40 Issue 3

Publisher: ACM

Full text available:  [pdf\(200.54 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 64, Citation Count: 1

General-purpose, commercial software platforms are increasingly used as system building blocks for dependable systems. One reason for their generality, usefulness, and popular adoption is that





software platforms can evolve through *ad hoc* ...

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